

# Hydrotalcite Mineral Data



## Pronunciation Guide

*Dakota MATRIX MINERALS*  
*The World of Minerals Online*

Updated weekly, for the collector, educator, and researcher since 1996

Extensive Inventory of very Rare Minerals

Visa and Mastercard are Welcome

### General Information

**Chemical Formula:** Mg<sub>6</sub>Al<sub>2</sub>(CO<sub>3</sub>)(OH)<sub>16·4</sub>(H<sub>2</sub>O)

**Composition:** Molecular Weight = 603.98 gm

<u>Magnesium</u>	24.14 %	Mg	40.04 %	MgO
<u>Aluminum</u>	8.93 %	Al	16.88 %	Al <sub>2</sub> O <sub>3</sub>
<u>Hydrogen</u>	4.01 %	H	35.79 %	H <sub>2</sub> O
<u>Carbon</u>	1.99 %	C	7.29 %	CO <sub>2</sub>
<u>Oxygen</u>	60.93 %	O		

100.00 %      100.00 % = TOTAL OXIDE

**Empirical Formula:** Mg<sub>6</sub>Al<sub>2</sub>(CO<sub>3</sub>)(OH)<sub>16·4</sub>(H<sub>2</sub>O)

**Locality:** Link to [MinDat.org](#) Location Data.

### Search for Hydrotalcite Images

**Images:**

Image Not  
Yet  
Available

Image not yet available on Webmineral.com  
 Try searching [images.google.com](http://images.google.com) for mineral pictures. Caution: The images retrieved may not be appropriate.

### Crystallography

**Axial Ratios:** a:c = 1:7.52854

**Cell Dimensions:** a = 6.13, c = 46.15, Z = 3; V = 1,501.84 Den(Calc)= 2.00

**Crystal System:** Trigonal - Hexagonal Scalenohedral H-M Symbol (-3 2/m) Space Group: R3m-

**X Ray Diffraction:** By Intensity(I/I<sub>0</sub>): 7.69(1) 3.88(0.7) 2.58(0.2)

### Physical Properties

**Cleavage:** [???] Perfect

**Color:** colorless or white.

**Density:** 2.06